Atty. Ref. No. 031001

Amendments to the Drawings:

The attached sheets of drawings include changes to Figures 3-5. These sheets, which include Figures 3-5, replace the replacement sheets of drawings, submitted with the Amendment dated August 22, 2003, including Figures 3-5. In Figures 3-5, the term "BF100" has been deleted and replaced with the term "NRRL B-11474".

Attachment: Replacement Sheets (3)

Annotated Sheets Showing Changes (3)





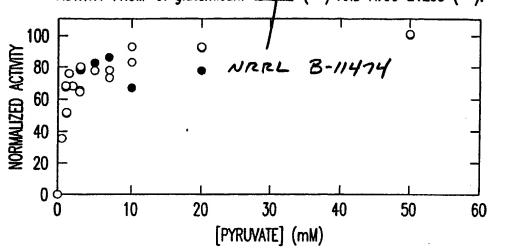


FIG. 3A

EFFECT OF VARIOUS SUBSTRATE CONCENTRATIONS ON PYRUVATE CARBOXYLASE ACTIVITY FROM *C. glutamicum* 3540 (○) AND ATCC 21253 (●).

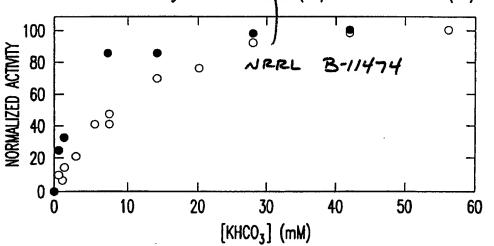


FIG. 3B

EFFECT OF VARIOUS SUBSTRATE CONCENTRATIONS ON PYRUVATE CARBOXYLASE ACTIVITY FROM C. glutamicum 8F199 (○) AND ATCC 21253 (●).

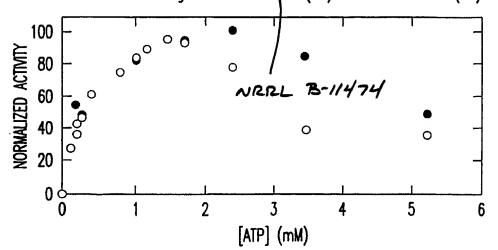


FIG. 3C



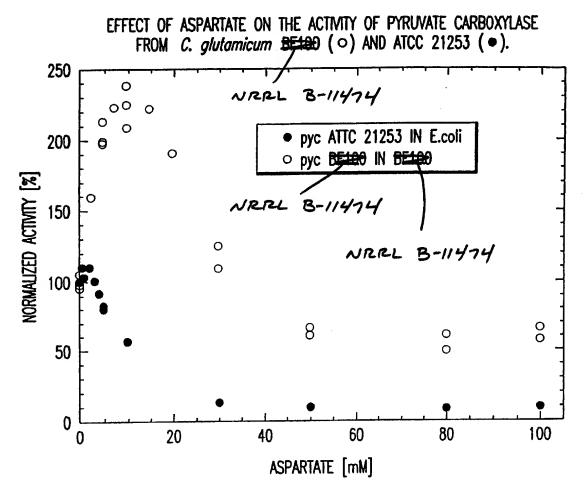
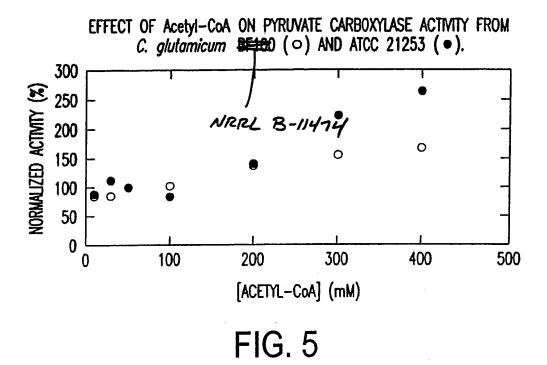


FIG. 4





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EFFECT OF VARIOUS SUBSTRATE CONCENTRATIONS ON PYRUVATE CARBOXYLASE ACTIVITY FROM C. glutamicum NRRL B-11474 (°) AND ATCC 21253 (°).

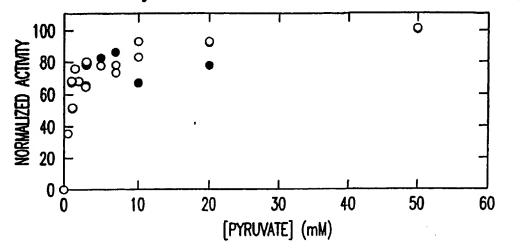


FIG. 3A

EFFECT OF VARIOUS SUBSTRATE CONCENTRATIONS ON PYRUVATE CARBOXYLASE ACTIVITY FROM C. glutamicum NRRL B-11474 (°) AND ATCC 21253 (•).

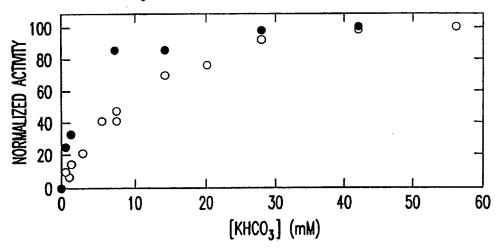


FIG. 3B

EFFECT OF VARIOUS SUBSTRATE CONCENTRATIONS ON PYRUVATE CARBOXYLASE ACTIVITY FROM C. glutamicum NRRL B-11474 (°) AND ATCC 21253 (•).

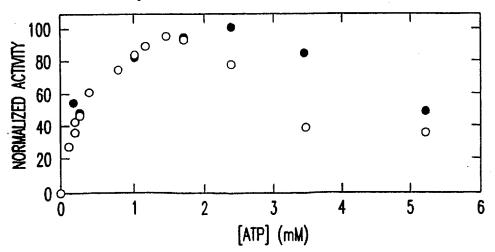


FIG. 3C



EFFECT OF ASPARTATE ON THE ACTIVITY OF PYRUVATE CARBOXYLASE FROM C. glutamicum NRRL B-11474 (○) AND ATCC 21253 (●).

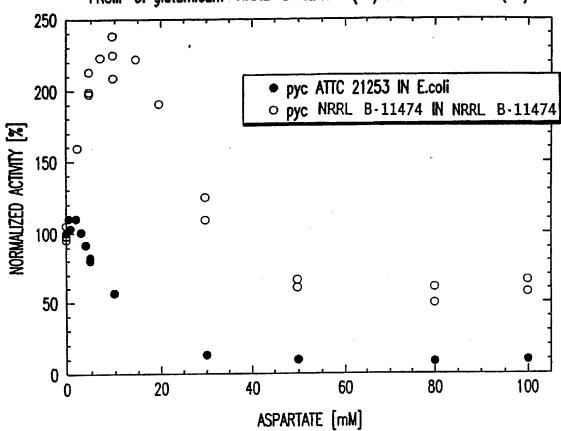


FIG. 4



EFFECT OF Acetyl-CoA ON PYRUVATE CARBOXYLASE ACTIVITY FROM C. glutamicum NRRL B-11474 (○) AND ATCC 21253 (●).

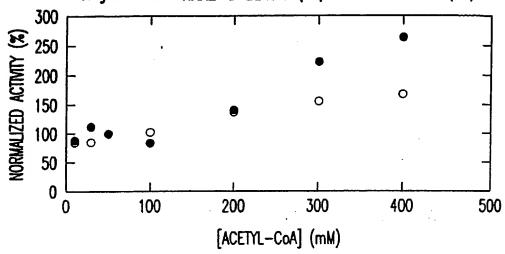


FIG. 5